## In the Claims

1. (original) A method for identifying an agent that modulates activity of the GRAIL complex in a cell, the method comprising:

combining a candidate biologically active agent with any one of:

- (a) a complex comprising GRAIL and one or more of an otubain isoform; USP8 and ras-GRF1;
- (b) a cell comprising a nucleic acid encoding and expressing an exogenous complex comprising GRAIL and one or more of an otubain isoform; USP8 and ras-GRF1; or
- (c) a non-human animal model for GRAIL complex gene function comprising cells expressing one or more exogenous GRAIL complex gene sequence(s); and

determining the effect of said agent on anergy or cellular proliferation.

- 2. (original) The method according to Claim 1, wherein said biologically active agent inhibits the ubiquitin ligase activity of GRAIL.
- 3. (original) The method according to Claim 2, wherein said biologically active agent increases cellular proliferation.
- 4. (original) The method according to Claim 1, wherein said biologically active agent increases the ubiquitin ligase activity of GRAIL.
- 5. (original) The method according to Claim 4, wherein said biologically active agent decreases cellular proliferation.
- 6. (original) The method according to Claim 1, wherein said biologically active agent binds to said complex comprising GRAIL and one or more of an otubain isoform; USP8 and ras-GRF1.
- 7. (original) A method of determining the substrates of an E3 ligase, the method comprising: introducing an E3 ligase coding sequence operably linked to an inducible promoter into a cell, wherein said cell is deficient in a negatively selectable enzyme;

introducing into a population of said cells a library of vectors comprising sequences encoding said negatively selectable marker fused to candidate E3 ligase substrate coding sequences;

induce expression of said E3 ligase in the presence of a compound toxic to cells expressing said enzyme;

wherein cells expressing said enzyme fused to a substrate for said E3 ligase are viable in the presence of said compound.

- 8. (original) The method according to Claim 7, further comprising the step of rescuing said candidate E3 ligase substrate coding sequences.
- 9. (original) The method according to Claim 7, wherein said rescue comprises specific PCR amplification.
- 10. (original) The method according to Claim 7, wherein said negatively selectable enzyme is thymidine kinase.
  - 11. (original) The method according to Claim 7, wherein said E3 ligase is GRAIL.
- 12. (original) An animal model for biological function of the GRAIL complex, comprising: syngeneic bone marrow having a transgenic T cell receptor specificity, and comprising a vector encoding at least one protein selected from the group consisting of GRAIL, an otubain isoform; USP8 and ras-GRF1, operably linked to an inducible promoter.
- 13. (original) A method of treating a proliferative disorder, said method comprising: administering a therapeutic amount of a biologically active agent that modulates the activity of the GRAIL complex in an animal with a proliferative disorder.
  - 14. (original) The method according to Claim 13, wherein said proliferative disorder is a cancer.
- 15. (original) The method according to Claim 13, wherein said proliferative disorder is an autoimmune disease.
- 16. (original) The method according to Claim 15, wherein said autoimmune disease is systemic lupus erythematosus.
- 17. (original) The method according to Claim 13, wherein said agent decreases the stability of GRAIL.
- 18. (original) The method according to Claim 13, wherein said agent increases the ubiquitination of GRAIL.

- 19. (original) The method according to Claim 13, wherein said agent increases the ubiquitination of ras-GRF1 by GRAIL.
  - 20. (canceled)
  - 21. (canceled)
- 22. (original) An isolated polypeptide complex comprising GRAIL and one or more of an otubain isoform; USP8 and ras-GRF1.
- 23. (currently amended) A method of diagnosing a defect in immune tolerance or cellular proliferation, the method comprising determining the steady state level of GRAIL polypeptide or an otubain isoform polypeptide, wherein a decrease in the level of GRAIL an alteration compared to a normally tolerant control cell is indicative of a defect in tolerance or cellular proliferation.

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24. (canceled)